		Committed Backlog Items	Tasks	Who?	Not Started	In Progress	Completed
PBI #1		PBI #1 - Generate error messages	PBI time: 8hr	Alex		X	
As	an election official using the voting system software	0.5hr	Catch error conditions	Alex			X
I want		0.5hr	Generate useful error messages	Alex			×
So that	I can fix the file and provide the correctly formatted file	0.5hr	Cleanly resolve error	Alex			Y
30 that	rearrix the life and provide the correctly formatted life						^
		4hr	Fuzz via AFL++	Alex			X
Acceptance Criteria	Generate appropriate errors for empty ballot files, files with parse problems	0.5hr	Documentation	Alex			X
	Generate an error if unable to parse input CSV file; accept correctly formatted CSV						
0.0.0	files; No compilation error; unit tests for each method and agreed amount of system	al	Write new unit tests	Alex			
	tests pass; correct output	1hr					X
Effort	Medium (~5-6 hours)	0.1hr	Run new unit tests	Alex			Х
		0.5hr	Write new system tests	Alex			X
		0.1hr	Run new system tests	Alex			X
		0.15hr	Write unit test logs	Alex	X		
		0.15hr	Write system test logs	Alex	X		
PBI #2		PBI #2 - Resolve ties via coin flip	PBI time: 3.5hr	Alex, Janani		X	
Δs	an election official using the voting system software	1hr	Add new functionality	Janani	X		
I want	Candidates or parties with ties to be resolved via a 50/50 coin flip	0.5hr	Documentation	Alex	^ v		
					^		
So that	Ties ae resolved randomly, fairly, and indepdently of other factors	1hr	Write new unit tests	Alex	Х		
		0.1hr	Run new unit tests	Alex	X		
Acceptance Criteria	Ties between candidates or between parties can be resolved randomly	0.5hr	Write new system tests	Alex	X		
	Ties between candidates or between parties can be resolved randomly; No						
	compilation error; unit tests for each method and agreed amount of system tests						
	pass; correct output	0.1hr	Run new system tests	Alex	X		
Effort	Small (~2-3 hours)	0.15hr	Write unit test logs	Janani	X		
		0.15hr	Write system test logs	Janani	X		
PBI #3		PBI #3 - VotingSystem api has one method for elections	PBI time: 2.6hr	Alex			X
Δs	g developer	0.1hr	Rewrite old calls in Election	Alex			X
7.0	to be able to create and run an election, easily. The electables field is not populated	G.III	The write old calls in Election	/ IICX			
l want	unless three additional functions are celled in order	0.5hr	Documentation	Alex			Y
So that	The probability of logic errors are reduced and the system is easily extensible.	1hr	Write new unit tests	Alex			v
50 triat	The probability of logic errors are reduced and the system is easily extensible.	0.1hr		Alex			^
		U.inr	Run new unit tests	Alex			X
	A new method is added to votingSystem to automatically call processElectables(),						
Acceptance Criteria	countVotes(), and calculateResults().	0.5hr	Write new system tests	Alex			X
	No compilation error, unit tests for each method and agreed amount of system tests						
	pass; correct output	0.1hr	Run new system tests	Alex			X
Definition of Done Effort	No compliation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours)	0.15hr	Write unit test logs	Alex			X X
Effort	pass; correct output	0.15hr 0.15hr		Alex Alex			x x x
	pass; correct output	0.15hr 0.15hr	Write unit test logs	Alex		X	x x x
Effort	pass; correct output	0.15hr	Write unit test logs Write system test logs	Alex Alex		X	x x x
Effort	pass; correct output Small (-2-5 hours) an election official	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL	Alex Alex Ashwin, Alex, Leo		X	x x x
PBI #4 As I want	pass, correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL	Alex Alex Ashwin, Alex, Leo Alex Alex		x	x x x
Effort PBI #4 As	pass; correct output Small (-2-5 hours) an election official	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read	Alex Ashwin, Alex, Leo Alex		X	x x x x
PBI #4 As I want	pass, correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file	Alex Ashwin, Alex, Leo Alex Alex Leo	V	x	x x x x
Effort PBI #4 As I want So that	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin	×	x	x x x x x
Effort PBI #4 As I want So that	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file	Alex Ashwin, Alex, Leo Alex Alex Leo	x x	x	x x x x x
Effort PBI #4 As I want So that Acceptance Criteria	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple.csv input files for CPL election being read correctly at the same time No compilation error; unit tests for each method and agreed amount of system tests	0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 0.25hr 1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin	x x	X	x x x x x
Effort PBI #4 As I want So that Acceptance Criteria	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin	x x	x	x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo	x x	x	x x x x x
Effort PBI #4 As I want So that Acceptance Criteria	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple.csv input files for CPL election being read correctly at the same time No compilation error; unit tests for each method and agreed amount of system tests	0.15hr 0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo	x x	x x x	x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo	x x	x x x	X X X X X
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr 0.1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CUI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written	Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin	x x	x x x	x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo	x x	x x x	x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr 0.1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CUI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written	Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin	x x	x x x x	x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.3hr 0.5hr PBI #5 - Multiple files for the OPL algorithm 0.25hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Leo Leo Ashwin Ashwin Ashwin	x x	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No complication error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr 0.1hr PBI #5 - Multiple files for the OPL algorithm 0.25hr 0.25hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin	x x	x x x x	X X X X X X X X
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.3hr 0.5hr PBI #5 - Multiple files for the OPL algorithm 0.25hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Code functionality for multiple files for OPL Code functionality for multiple files read	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Leo Ashwin Ashwin Ashwin Ashwin Ashwin Ashwin Ashwin	X X	x x x x	x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No complication error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 0.5hr 0.5hr 0.1hr 0.5hr 0.1hr 0.3hr 0.5hr 0.5hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods for CPL multiple file functionality Run new unit tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo Ashwin Ashwin Leo Ashwin Ashwin Ashwin Leo	x x	x x x x	X X X X X X X
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No complication error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr DBI #5 - Multiple files for the OPL algorithm 0.25hr 0.25hr 0.25hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin, Leo Ashwin Ashwin, Leo Ashwin Ashwin, Leo Leo	x x	x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 0.5hr 0.5hr 0.1hr 0.5hr 0.1hr 0.3hr 0.5hr 0.5hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods for CPL multiple file functionality Run new unit tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo Ashwin Ashwin Leo Ashwin Ashwin Ashwin Leo	x x	x x x x	x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of sustem tests	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 0.5hr 0.5hr 0.1hr 0.5hr 0.1hr 0.3hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Leo Leo Leo Leo Ashwin Ashwin Leo Ashwin Ashwin Leo Ashwin Ashwin Leo	x x	x x x x	X X X X X X X
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr DBI #5 - Multiple files for the OPL algorithm 0.25hr 0.25hr 0.25hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CUI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CUI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests for OPL multiple files	Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin, Leo Ashwin Ashwin, Leo Ashwin Ashwin, Leo Leo	X X	x x x x	x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done	pass; correct output an election official Multiple files to be brought in for a CPL election they can bring in different files from different ballating locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different ballating locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr 0.5hr 0.5hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr 0.6hr 0.7hr 0.8hr 0.8hr 0.8hr 0.9hr 0.9hr 0.9hr 0.9hr 0.9hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Change GUI functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write baysgen documentation for new methods written PBI time: 3.5hr Change CUI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods written Write new unit tests for new methods written Write integration tests for OPL multiple file functionality Run new unit tests for new methods written	Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo Leo Leo Leo Ashwin Ashwin Leo Leo Leo Leo Leo Leo Leo Leo Leo	x x	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of sustem tests	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.3hr 0.5hr PBI #5 - Multiple files for the OPL algorithm 0.25hr 0.25hr 0.1hr 0.25hr 0.25hr 0.25hr 0.1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods for CPL multiple file functionality Run new unit tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests for OPL multiple files Run Integration tests to make sure system still functions correctly	Alex Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Leo Leo Leo Leo Leo Leo Ashwin Ashwin Leo Leo Leo Leo Leo Leo	x x	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done	pass; correct output an election official Multiple files to be brought in for a CPL election they can bring in different files from different ballating locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different ballating locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GLI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests for OPL multiple files Run Integration tests for OPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests	Alex Alex Alex Ashwin, Alex, Leo Ashwin Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo Leo Leo Leo Leo Leo Ashwin Ashwin Leo Leo Ashwin Ashwin Leo Leo Leo Leo Leo Leo Leo	X X	x x x x	x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done Effort	pass; correct output an election official Multiple files to be brought in for a CPL election they can bring in different files from different ballating locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different ballating locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr 0.5hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Change GUI functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written	Alex Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo	x x x	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done	pass; correct output an election official Multiple files to be brought in for a CPL election they can bring in different files from different ballating locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different ballating locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GLI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests for OPL multiple files Run Integration tests for OPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests	Alex Alex Alex Ashwin, Alex, Leo Ashwin Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo Leo Leo Leo Leo Leo Ashwin Ashwin Leo Leo Ashwin Ashwin Leo Leo Leo Leo Leo Leo Leo	X X	x x x x	x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done Effort	pass; correct output an election official Multiple files to be brought in for a CPL election they can bring in different files from different ballating locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different ballating locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output	0.15hr 0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr 0.5hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Change GUI functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written	Alex Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo	x x	x x x x	x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done Effort	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours)	0.15hr 0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr 0.5hr 0.1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Change GUI functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write Daxygen documentation for new methods written PBI time: 3.5hr Change CUI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Chonge GUI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Run new unit tests for new methods written Write new unit tests for new methods written Write integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3hr MPO correctly inherits from VotingSystem and implements	Alex Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Leo Leo Leo Leo Ashwin Leo	x x x	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done Effort	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours)	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.5hr 0.5hr PBI #5 - Multiple files for the OPL algorithm 0.25hr 0.1hr 0.25hr 0.1hr 0.25hr 0.1hr 0.5hr 0.1hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests for OPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3hr	Alex Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Leo Leo Leo Leo Ashwin Leo	X X	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 Acceptance Criteria Definition of Done Effort	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-5 hours) an election official MPO election ballots to be brought in via a .csv file	0.15hr 0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr 0.5hr 0.1hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Change GUI functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write Daxygen documentation for new methods written PBI time: 3.5hr Change CUI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Chonge GUI functionality to take in multiple files for OPL Change GUI functionality to take in multiple files for OPL Run new unit tests for new methods written Write new unit tests for new methods written Write integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3hr MPO correctly inherits from VotingSystem and implements	Alex Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo	x x x	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want Acceptance Criteria Definition of Done Effort	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours)	0.15hr 0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr 0.75hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods for CPL multiple file functionality Write test for cPL multiple files Run integration tests for CPL multiple files Run integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Code functionality for multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests for OPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3hr MPO can read MPO file MPO correctly inherits from VotingSystem and implements all required methods Write unit tests for added functionality	Alex Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Leo	X X	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want Acceptance Criteria Definition of Done Effort PBI #6 As I want	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-5 hours) an election official MPO election ballots to be brought in via a .csv file	0.15hr 0.15hr PBI #4 - Multiple files for the CPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.1hr 0.5hr 0.1hr 0.3hr 0.5hr PBI #5 - Multiple files for the OPL algorithm 0.25hr 0.25hr 1hr 0.5hr 0.5hr 0.5hr PBI #5 - Multiple files for the OPL algorithm 0.5hr 0.5hr 0.5hr 0.5hr 0.5hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods written Write integration tests for CPL multiple files Run Integration tests for CPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3hr MPO correctly inherits from VotingSystem and implements all required methods Write unit tests for added functionality Run un it tests	Alex Alex Alex Ashwin, Alex, Leo Alex Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Leo	x x x	x x x x	x x x x x x x x x x x x x x x x x x x
Effort PBI #4 As I want So that Acceptance Criteria Definition of Done Effort PBI #5 As I want Acceptance Criteria Definition of Done Effort PBI #6 As I want So that	pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for a CPL election they can bring in different files from different balloting locations Multiple .csv input files for CPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-3 hours) an election official Multiple files to be brought in for an OPL election they can bring in different files from different balloting locations Multiple .csv input files for OPL election being read correctly at the same time No compilation error, unit tests for each method and agreed amount of system tests pass; correct output Small (-2-5 hours) an election official MPO election ballots to be brought in via a .csv file	0.15hr 0.15hr 0.15hr 0.15hr 0.25hr 0.25hr 1hr 0.5hr 0.75hr	Write unit test logs Write system test logs PBI time: 3.5hr Change CLI functionality to take in multiple files for CPL Change GUI functionality to take in multiple files for CPL Code functionality for multiple files read Write new unit tests for new methods for CPL multiple file functionality Run new unit tests for new methods for CPL multiple file functionality Write test for cPL multiple files Run integration tests for CPL multiple files Run integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3.5hr Change CLI functionality to take in multiple files for OPL Code functionality for multiple files for OPL Code functionality for multiple files read Write new unit tests for new methods for OPL multiple file functionality Run new unit tests for new methods written Write integration tests for OPL multiple files Run Integration tests to make sure system still functions correctly Write test logs for unit and integration tests Write Doxygen documentation for new methods written PBI time: 3hr MPO can read MPO file MPO correctly inherits from VotingSystem and implements all required methods Write unit tests for added functionality	Alex Alex Alex Ashwin, Alex, Leo Alex Leo Ashwin Ashwin Leo Leo Leo Ashwin Ashwin Leo	x x x	x	x x x x x x x x x x x x x x x x x x x

	N						
Definition of Done	No compilation error; unit tests for each method and agreed amount of system tests pass; correct output	0.1hr	Run integration tests	Leo		Y	
Effort	Small (~2-3 hours)	0.15hr	Write unit test logs	Janani		X	
LITOIT	3Hull (*2-3 Hours)	0.15hr	Write system test logs	Janani		X	
		0.5hr	Write Doxygen documentation for new methods written	Janani		X X	
PBI #7		PBI #7 - MPO multiple files	PRI time: 2 7hr			^	
PDI #/	an election official	0.1hr	Change CLI functionality to take in multiple files for MPO	Alex, Ashwin, Leo		^	v
AS		0.thr		Alex			X
I want	Multiple files to be brought in for a MPO election	0.5hr					X
So that	they can bring in different files from different balloting locations	U.5hr	Code functionality for multiple files read	Leo			Х
		0.5hr	Write new unit tests for new methods for MPO multiple file functionality	Ashwin			V
Annantanan Critaria	Multiple .csv input files for MPO election being read correctly at the same time	0.5m	Run new unit tests for new methods written	Ashwin	V		^
Acceptance Citteria		0.111	Notifiew drift tests for flew metrious written	ASHWIII	^		
Definition of Done	No compilation error; unit tests for each method and agreed amount of system tests pass; correct output	0.5hr	Write integration tests for MPO multiple files	Ashwin			×
Definition of Bone	pass, correct output	0.5111	Run Integration tests to make sure system still functions	ASIWIII			^
Effort	Small (~2-3 hours)	0.1hr	correctly	Ashwin	X		
		0.3hr	Write test logs for unit and integration tests	Leo		X	
		0.5hr	Write Doxygen documentation for new methods written	Leo		X	
PBI #8		PBI #8 - MPO election	PBI time: 4.5hr	Alex, Leo, Ashwin		X	
Δs	an election official	1hr	Break RawData::ParseFile() into sub functions	Alex			×
7.5	to write an algorithm that determines multiple winners based on the candidates		Ereak Navibata diser neg inte soo renetions	/ IICX			^
I want	receiving the most ballots with a fair coin toss	0.5hr	Change header line read order based on election type	Alex			X
So that	an MPO election can be run by the voting system	1hr	Add new functionality	Leo		X	
		0.5hr	Write unit tests for added functionality	Leo		X	
	MPO algorithm correctly calculates the winners and losers and fairly determines ties						
Acceptance Criteria	if there are anu	0.1hr	Run unit tests	Leo		X	
,	No compilation error; unit tests for each method and agreed amount of system tests		Write integration tests to make sure the system still works				
Definition of Done	pass; correct and fair output	0.5hr	as intended	Leo		X	
Effort	Large (~6-7 hours)	0.1hr	Run integration tests	Leo		X	
		0.15hr	Write unit test logs	Ashwin		X	
		0.15hr	Write system test logs	Ashwin		X	
		0.5hr	Write Doxygen documentation for new methods written	Ashwin		X	
PBI #9		PBI #9 - MV files in general	PBI time: 3hr	Ashwin, Janani			
Δς	an election official	0.5hr	RawData can read MV file	Ashwin		X	
I want	MV election ballots to be brought in via a .csv file	0.5hr	Fileops can read MV file	Ashwin		Y	
So that	the election can be run by the MV algorithm in the system	0.5hr	Write unit tests for added functionality	Ashwin		×	
30 triat	the election can be for by the PIV algorithm in the system	0.1hr	Run unit tests	Ashwin		^ v	
		0.1111		ASTIWITI		^	
Accentance Criteria	.csv input file for MV election being read correctly	0.5hr	Write integration tests to make sure the system still works as intended	Janani	×		
neceptance entena	No compilation error; unit tests for each method and agreed amount of system tests	6.511	as interiors	Carian	^		
Definition of Done	pass; correct output	0.1hr	Run integration tests	Janani	X		
Effort	Small (~2-3 hours)	0.15hr	Write unit test logs	Janani	X		
		0.15hr	Write sustem test logs	Janani	X		
		0.5hr	Write Doxygen documentation for new methods written	Ashwin	X		
PBI #10		PBI #10 - MV multiple files	PBI time: 2.7hr	Alex, Leo		X	
Δs	an election official	0.1hr	Change CLI functionality to take in multiple files for MV	Alex			×
I want	Multiple files to be brought in for an MV election	0.1hr	Change GUI functionality to take in multiple files for MV	Alex			Y
So that	Different files can be brought in from different balloting locations	0.5hr	Code functionality for multiple files read	Leo			V
SO triat	Different files can be brought in from different balloting locations	0.5111		Leo			^
		0.5hr	Write new unit tests for new methods for MV multiple file functionalitu	Leo			×
Acceptance Criteria	Multiple .csv input files for MV election being read correctly at the same time	0.1hr	Run new unit tests for new methods written	Leo		X	
, cceptance cinena	No compilation error; unit tests for each method and agreed amount of system tests	C	Normal of the tests for new methods written				
Definition of Done	pass; correct output	0.5hr	Write integration tests for MV multiple files	Leo			X
2.22.30			Run Integration tests to make sure system still functions				
Effort	Small (~2-3 hours)	0.1hr	correctly	Leo		X	
		0.3hr	Write test logs for unit and integration tests	Leo		X	
		0.5hr	Write Doxygen documentation for new methods written	Leo		X	
PBI #11		PBI #11 - MV election	PBI time: 4.5hr	Alex, Janani		X	
As	an election official	1hr	Break RawData::ParseFile() into sub functions	Alex			X
	to determine multiple winners based on the candidates receiving the most ballots		The source of th				
I want	with a fair coin toss if there is a tie or ties between candidate	0.5hr	Change header line read order based on election type	Alex			X
	our voting system can handle and process votes case in an MV election using an						
So that	Municipality Voting (MV) algorithm	1hr	Add new functionality	Janani	X		
		0.5hr	Write unit tests for added functionality	Janani	X		
Acceptance Criteria	Program correctly produces multiple winners in MV format	0.1hr	Run unit tests	Janani	X		
	Program section passes unit tests; no logic errors that produces incorrect winner		Write integration tests to make sure the system still works				
Definition of Done	results; agreed amount of system tests pass	0.5hr	as intended		X		
Effort	Large (~6-7 hours)	0.1hr	Run integration tests		X		
		0.15hr	Write unit test logs	Janani	X		
		0.15hr	Write system test logs	Janani	X		
		0.5hr	Write Doxygen documentation for new methods written	Janani	X		
PBI #12		PBI #12 - MPO Display	PBI time: 3hr	Alex,		X	
				-			

Λε	an election official	1br	Add new functionality	Alex			Υ
A3	direction official			AICA			^
I want	MPO election statistics to be displayed to the screen at the end of the election	0.5hr	Write unit tests for added functionality (Move from election)	Alex		~	
I WOITE		0.511	election)	AICX		^	
So that	MPO election results and other relevant info can be read and understood easily by election officials	0.1hr	Run unit tests		V		
30 that	election officials	U.IIII			^		
		0.5hr	Write integration tests to make sure the system still works as intended		Y		
	Clearly displays the winners and losers of the election, as well as the percentage of	0.311	damended		^		
Acceptance Criteria		0.1hr	Run integration tests		x		
	No compilation error; unit tests for each method and agreed amount of system tests						
	pass; correct output/displays the correct information in an easily understandable						
Definition of Done		0.15hr	Write unit test logs		X		
Effort	Medium (~4-5 hours)	0.15hr	Write system test logs		X		
		0.5hr	Write Doxygen documentation for new methods written		X		
PBI #13		PBI #13 - MV Display	PBI time: 3hr	Alex,		X	
As	an election official	1hr	Add new functionality	Alex			X
			Write unit tests for added functionality (Move from				
I want	to display results from an MV election to the screen to see who won and who lost	0.5hr	election)	Alex		X	
	election officials can easily view results and know the number of votes they received						
So that	by all the voters	0.1hr	Run unit tests		X		
			Write integration tests to make sure the system still works				
		0.5hr	as intended		X		
	Displays the winners and losers of the election, as well as the number of votes						
Acceptance Criteria		0.1hr	Run integration tests		X		
	No compilation error, unit tests for each method and agreed amount of system tests						
Definition of Done	pass; correct output/displays the correct information in an easily understandable format	0.15hr	Write unit test logs		V		
		0.15hr	•		A		
Effort			Write system test logs		X		
		0.5hr	Write Doxugen documentation for new methods written		X		
			Total time: 47.5hr				